	Application No.	Applicant(s)
Notice of Allowability	09/927,940	PRASAD, ARUN
	Examiner	Art Unit
	Harry D Wilkins, III	1742
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>after-final amendment filed 29 January 2004</u> .		
2. ☑ The allowed claim(s) is/are <u>1-3,5-10 and 12-15</u> .		
3. The drawings filed on are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	6. ☐ Interview Summar Paper No./Mail D 08), 7. ☐ Examiner's Amen	ate

Application/Control Number: 09/927,940

Art Unit: 1742

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the grounds of rejection of both independent claims 1 and 9 included an optimization of the coefficient of thermal expansion. Kulmberg teaches several examples that are similar in composition to the present invention. However, none of those examples meets the presently claimed coefficient of thermal expansion. The rejection grounds relied upon Aisaka et al to teach that Mn was known to increase the coefficient of thermal expansion. However, as can be seen in the examples of Kulmberg, where when each example contains comparable amounts of other elements, the example with the most amount of Mn present has the lowest thermal expansion coefficient, thus showing the exact opposite teaching of Aisaka et al, that more Mn actually decreases the coefficient of thermal expansion. When all of the prior art is weighed together, it appears that there was great uncertainty as to the true effect of Mn on the coefficient of thermal expansion. Thus, it was not known that Mn was result effective on the coefficient of thermal expansion, and as such, it would not have been within the expected skill of a routineer in the art to have optimized the coefficient of thermal expansion by choosing Mn at the high end of the range of Kulmberg. Therefore, independent claims 1 and 9, each of which requires a specific limited coefficient of thermal expansion, is not taught by the prior art. For at least these reasons, dependent claims 2-3, 5-8, 10, and 12-15 are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 1742

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry D Wilkins, III whose telephone number is 571-272-1251. The examiner can normally be reached on M-Th 10:00am-8:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy V King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harry D Wilkins, III Examiner Art Unit 1742

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Page 3